

**AMENDMENTS TO THE CLAIMS**

1. (currently amended) A method for growing cells comprising  
reviving cells stored for culturing in the presence of a cryoprotectant, wherein the  
cells are diluted in a growth medium without removing the cryoprotectant such that cell viability  
is maintained, and  
  
culturing said cells.
2. (currently amended) The method of defined in claim 1  
wherein the cryoprotectant is DMSO.
3. (currently amended) The method of defined in claim 2  
wherein DMSO is present in an amount of less than about 2% by volume based  
on total volume of cells and media present.
4. (currently amended) The method of defined in claim 1  
wherein the cells are grown in a self-contained cell culture vessel.
5. (currently amended) A kit comprising  
a self-contained cell culture vessel comprising a cell reservoir, a media reservoir,  
and a gas reservoir;  
cells and a cryoprotectant disposed in [[a]] said cell reservoir;  
a liquid cell culture ~~media~~ medium ~~of disposed in an internal chamber of the~~  
~~vessel or in a~~ said media reservoir in ~~of~~ an amount capable of diluting the cryoprotectant to a  
volume suitable for cell growth; and  
gas disposed in the gas reservoir.
6. (currently amended) The kit of defined in claim 5 maintained at a subzero  
temperature.

7. (currently amended) The kit of claim 5, further comprising an internal chamber.  
~~A method for growing cells in a self-contained cell culture vessel at a temperature suitable for cell culturing comprising:~~

~~— incubating the kit defined in claim 5 or 22.~~

8. (currently amended) The kit of defined in claim 7, 5 wherein  
~~the cell culture vessel comprising~~  
the internal chamber defines a space therein and has an internal surface;  
the internal chamber defines at least one optionally sealable port or channel;  
the internal chamber defines at least one sealable opening for receiving a gas  
reservoir capable of fluid communication with the internal chamber;  
wherein the gas reservoir contains a valve or removable seal ~~defined between the~~  
~~gas reservoir and the internal chamber or the gas reservoir is a self-contained reservoir that is~~  
~~capable of being disposed of within the internal chamber;~~  
wherein the cell reservoir is capable of fluid communication with the internal  
chamber and defines an optional valve or seal therebetween;  
wherein the media reservoir is capable of fluid communication with the internal  
chamber and defines an optional valve or seal therebetween;  
wherein the vessel is capable of being sealed; and  
wherein the vessel is made from a material capable of withstanding subzero  
temperatures without degrading.

9. (currently amended) The kit of defined in claim 8 wherein the vessel further  
comprises  
a liquid impermeable flexible partition having two sides displaced within the  
internal chamber, the two sides defining a first and a second space within the internal chamber;  
wherein the partition is capable of exchanging gas between said first and second  
space;  
wherein the first ~~side defines a first space~~ is capable of ~~for~~ containing a liquid  
~~which is~~ in communication with at least one port or channel, and defines a sealable access port,  
and

wherein the first space is capable of fluid communication with the cell reservoir and/or the media reservoir;

wherein the second ~~side defines a second~~ space is capable of ~~for~~ containing a gas, and said second space ~~which~~ is capable of fluid communication with the gas reservoir; and

wherein the edges of the partition are sealed to a portion of the internal surface of the internal chamber to prevent liquid communication between said spaces.

10. (currently amended) The kit ~~of defined in claim 9,~~ wherein the second space for containing a gas is further defined by ~~vessel further comprises~~

a fluid and gas impermeable expandable wall affixed to a rigid wall of the internal chamber and forming an integral portion of the internal chamber; ~~and~~

~~wherein the fluid impermeable expandable wall and the partition define the gas space.~~

11. (currently amended) The kit ~~defined in any of claim 8~~ claims 5-10

wherein one or more of the valves or seals is capable of opening and closing;

wherein at least one port or channel sealably connects to at least one additional media chamber through at least one fluid channel, wherein at least one valve or seal is displaced between each port or channel and each media chamber; and wherein the media chamber is located externally to the vessel;

wherein at least one port or channel sealably connects to at least one absorbent chamber, wherein at least one valve or seal is displaced between each additional port or channel and the absorbent chamber; and

further comprising a cell filter ~~proximal to each valve or seal and~~ between each valve or ~~and~~ seal and each absorbent chamber.

12. (currently amended) The kit ~~defined in any of claim 7~~ claims 5-11,

wherein the gas reservoir is a self-contained capsule disposed within the internal chamber.

13. (currently amended) The kit ~~defined in any of claim 7~~ claims 5-12,

wherein the gas reservoir is disposed outside the internal chamber, and is sealably connected to the internal chamber.

14. (currently amended) The kit ~~defined in any of claim 7 claims 5-13,~~  
wherein the cell reservoir and the media reservoir are contained within ~~present in~~  
the internal chamber.

15. (currently amended) The kit ~~defined in any of claim 7 claims 5-14,~~  
~~where in~~ wherein the cell reservoir and/or the media reservoir is a self-contained  
capsule.

16. (currently amended) The kit ~~defined in any of claim 8 claims 5-15,~~  
wherein the seal or valve defined between the gas reservoir and the internal  
chamber is selected from the group consisting of a) a temperature or electrically sensitive seal  
~~plug~~; b) a diaphragm adapted to be penetrated, or c) a mechanically, thermally or electrically  
operated valve.

17. (currently amended) The kit of ~~defined in~~ claim 16,  
comprising a temperature sensitive seal and further comprising a safety seal ~~in~~  
~~addition to the temperature sensitive plug.~~

18. (currently amended) The kit of ~~defined in claims 5-17~~ claim 8,  
wherein the internal chamber is removably or fixedly connected to at least one  
measuring device via at least one port or channel.

19. (currently amended) The kit of ~~defined in~~ claim 18,  
wherein the measuring device is a ~~at least one~~ Micro Electro Mechanical System  
(MEMS) and/or high performance liquid chromatograph (HPLC).

20. (currently amended) The kit ~~defined in any of claim 18 claims 5-19,~~  
wherein ~~at least one~~ a port or channel defines ~~at least one~~ a mechanism to provide  
fluid communication between the internal chamber and the measuring device.

21. (currently amended) The kit of ~~defined in~~ claim 20, wherein the mechanism is a ball valve or a perforable diaphragm.
22. (currently amended) The kit ~~defined in any of~~ claim 8 ~~claims 5-21~~, wherein the internal chamber defines one or two ports or channels.
23. (currently amended) The kit of ~~defined in~~ claim 21, wherein the measuring device further comprises a member for operating the ball valve or for penetrating the diaphragm.
24. (currently amended) The kit ~~defined any of~~ claim 18, ~~claims 5-23~~ further comprising a filter within ~~on~~ the port or channel for preventing contamination in the internal chamber.
25. (currently amended) The kit ~~defined in any of~~ claim 8, ~~claims 9-24~~ wherein the sealable access port is removably sealed with an access port closure.
26. (currently amended) The kit ~~defined in any of~~ claim 8, ~~claims 5-25~~ further comprising at least one sensor externally connected to at least one port or channel or disposed inside the internal chamber.
27. (currently amended) The kit of ~~defined in~~ claim 26, ~~19~~ wherein the sensor senses oxygen, CO<sub>2</sub>, or pH levels.
28. (currently amended) A method ~~to~~ for transporting cells from a distribution site to a transplant site ~~where a transplant takes place~~, comprising transporting the kit defined in claim 5 ~~[[6]]~~ at a temperature suitable for maintaining cell viability to a transplant site ~~where the cell transplant takes place~~; and reviving said cells in said vessel at a transplant site by diluting said cells in a growth medium without removing the cryoprotectant.

29. (currently amended) The method of ~~defined in~~ claim 28, wherein the cells are islet cells.

30. (currently amended) The method of ~~defined in~~ claim 28 ~~or 29~~ wherein the temperature suitable for maintaining cell viability is selected from the group consisting of minus 80° C, minus 20° C, and 4° C.